

DRUG-INDUCED DEATHS DATA SUMMARY

IDAHO

**Drug-Induced Deaths to Idaho Residents and
Drug-Induced Deaths to Idaho Residents Occurring in Idaho**

2004-2006

**Bureau of Vital Records and Health Statistics
Division of Health
Idaho Department of Health and Welfare**

April 2008

TABLE OF CONTENTS

	<u>Page</u>
Definition	1
<u>Drug-Induced Deaths to Idaho Residents</u>	
Limitations and summary	2
Drug-induced deaths by place of death (Table 1)	3
Drug-induced deaths by occurrence (numbers and rates) (Table 2a)	3
Drug-induced deaths by occurrence (percent) (Table 2b)	3
Drug-induced deaths by cause of death (Idaho and the U.S.) (Table 3)	4
<u>Drug-Induced Deaths to Idaho Residents Occurring in Idaho</u>	
Limitations and summary	5
Substances mentioned on death certificate by year, 2004-2006 (Table 4).....	6
Substances mentioned on death certificate by district of residence (Table 5).....	7
Substances mentioned on death certificate by age group and gender (Table 6)	8
Substances mentioned on death certificate by manner, (Table 7)	9
<u>Appendix</u>	
Drug-induced death certificate samples	10
Counties comprising Idaho public health districts.....	12
Technical Notes	13

DRUG-INDUCED DEATHS 2004-2006

Definition

Drug-Induced deaths to Idaho residents include all deaths where drug use/abuse was listed as an underlying cause of death, regardless of where the death occurred. Drug-induced deaths include illicit, prescription, and over-the-counter drugs.

Drug-induced deaths include deaths due to drug psychosis drug dependence including tobacco; nondependent use of drugs not including alcohol and tobacco; accidental poisoning by drugs, medicaments, and biologicals; intentional self-poisoning (suicide) by drugs, medicaments, and biologicals; assault (homicide) by poisoning by drugs and medicaments; and poisoning by drugs, medicaments, and biologicals, undetermined whether accidental or purposely inflicted.

Drug-induced deaths do not include newborn deaths associated with mother's drug use, accidents such as falls and motor vehicle crashes, homicides, and other causes indirectly related to drug use.

The question 'Did tobacco use contribute to cause of death?' was added to the death certificate in 2003. Prior to 2003, deaths that were ill-defined or had an unknown cause of mortality listed on the death certificate were coded to ICD-10 codes R96-R99.9, (Ill-defined and unknown causes of mortality). Beginning in 2003, deaths that were ill-defined or had an unknown cause of mortality listed on the death certificate were coded to ICD-10 codes R96-R99.9, if the question 'Did tobacco use contribute to cause of death?' was marked no or unknown. If the question 'Did tobacco use contribute to cause of death?' was marked yes or probably, deaths that were ill-defined or had an unknown cause of mortality listed on the death certificate were coded to ICD-10 code F17.9, mental and behavioral disorders due to use of tobacco.

Death certificates with the verbiage 'abuse' or 'usage' will be coded to a natural manner of death, F19.1, (Mental and behavioral disorders due to multiple drug use and use of other psychoactive substances). Death certificates with the verbiage 'overdose' will be coded to an accidental manner of death.

IDAHO RESIDENT DRUG-INDUCED DEATHS 2004-2006

Limitations

Idaho Vital Records receives death records for Idaho resident deaths occurring out of state. These records list the ICD-10 code for underlying cause of death. However, literal information on immediate cause, conditions leading to the immediate cause, underlying cause, other significant contributing conditions, and description of how the injury occurred are not provided to Idaho Vital Records. For this reason, the table containing data by cause of death is analyzed from the ICD-10 code only.

Summary

There were 375 drug-induced deaths to Idaho residents from 2004 to 2006. Table 1 shows that a total of 342 deaths (91.2 percent) occurred in Idaho. The number of drug-induced deaths increased 30.6 percent from 111 deaths in 2004 to 145 deaths in 2006.

Table 2a indicates the 2004 through 2006 average-annual drug-induced death rate for Idaho was 8.7 deaths per 100,000 population. The 2004 through 2006 average-annual drug-induced death rate for District 3 (6.1 deaths per 100,000 population) was 51.5 percent lower than the rest of the state. The 2004 through 2006 average-annual drug-induced death rate for District 2 (11.3 deaths per 100,000 population) was 32.1 percent higher than the rest of the state.

Table 3 contains drug-induced deaths for Idaho residents from 2004 through 2006 and for the U.S. for 2005. The drug-induced death rate for the U.S. (11.3 deaths per 100,000 population) was significantly higher than the rate observed in Idaho (8.7 deaths per 100,000 population). Much of the difference can be attributed to the higher rate of accidental drug-induced deaths in the United States. The accidental drug-induced death rate for the U.S. was 52.0 percent higher than the Idaho rate. The suicide drug-induced death rate was 1.4 deaths per 100,000 population in the U.S. and Idaho. Coroners were unable to determine the intent for 15.2 percent of all drug-induced deaths for Idaho residents and 9.1 percent for the United States.

TABLE 1
Idaho Resident Drug-Induced Deaths
by Place of Death (In Idaho and Out of State)
2004-2006

IDAHO RESIDENT DRUG-INDUCED DEATHS	TOTAL		2004		2005		2006	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Drug-Induced Deaths to Idaho Residents	375	100.0	111	100.0	119	100.0	145	100.0
Deaths Occurring Out of State	33	8.8	14	12.6	8	6.7	11	7.6
Deaths Occurring In Idaho	342	91.2	97	87.4	111	93.3	134	92.4

TABLE 2A
Idaho Resident Drug-Induced Deaths
Number and Average-Annual Rate by District of Residence
2004-2006

IDAHO RESIDENT DRUG-INDUCED DEATHS	TOTAL	DISTRICT OF RESIDENCE						
		1	2	3	4	5	6	7
Total Drug-Induced Deaths to Idaho Residents	375	61	34	42	116	38	51	33
Number of Deaths Occurring Out of State	33	9	7	3	6	2	4	2
Number of Deaths Occurring In Idaho	342	52	27	39	110	36	47	31
Average-Annual Idaho Resident Death Rate ¹	8.7	10.1	11.3	6.1	9.9	7.4	10.5	6.2

1. Rate: Average number of drug-induced deaths per 100,000 population. Rates are based on mid-year population.

TABLE 2B
Idaho Resident Drug-Induced Deaths
Percent by District of Residence
2004-2006

IDAHO RESIDENT DRUG-INDUCED DEATHS	TOTAL	DISTRICT OF RESIDENCE						
		1	2	3	4	5	6	7
Percent of Deaths Occurring Out of State	8.8%	14.8%	20.6%	7.1%	5.2%	5.3%	7.8%	6.1%
Percent of Deaths Occurring In Idaho	91.2%	85.2%	79.4%	92.9%	94.8%	94.7%	92.2%	93.9%

See Technical Notes for additional information.

TABLE 3
Drug-Induced Deaths
Idaho (2004-2006), United States (2005)

CAUSE OF DEATH	ICD-10 CODE	IDAHO			UNITED STATES		
		Number	Rate ¹	Percent	Number	Rate ¹	Percent
Total Drug-Induced Deaths	Footnote 2	375	8.7	100.0	33,541	11.3	100.0
Total Psychoactive Substance and Drug Use/Abuse	Footnote 3	38	0.9	10.1	3,714	1.3	11.1
Mental and behavioral disorders due to use of tobacco	Footnote 4	29	0.7	7.7	1,100	0.4	3.3
Mental and behavioral disorders due to other drugs	Footnote 5	9	0.2	2.4	2,614	0.9	7.8
Accidental Poisoning by Drugs	X40-X44	213	5.0	56.8	22,448	7.6	66.9
Nonopioid analgesics, antipyretics, and antirheumatics	X40	1	**	0.3	226	0.1	0.7
Antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified	X41	34	0.8	9.1	1,496	0.5	4.5
Narcotics and psychodysleptics (hallucinogens), not elsewhere classified	X42	77	1.8	20.5	11,050	3.7	32.9
Other drugs acting on the autonomic nervous system	X43	-	-	-	23	**	0.1
Other and unspecified drugs, medicaments, and biological substances	X44	101	2.4	26.9	9,653	3.3	28.8
Intentional Self-Harm (Suicide) by Drugs	X60-X64	62	1.4	16.5	4,240	1.4	12.6
Nonopioid analgesics, antipyretics, and antirheumatics	X60	4	0.1	1.1	243	0.1	0.7
Antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified	X61	13	0.3	3.5	930	0.3	2.8
Narcotics and psychodysleptics (hallucinogens), not elsewhere classified	X62	6	0.1	1.6	613	0.2	1.8
Other drugs acting on the autonomic nervous system	X63	-	-	-	16	**	**
Other and unspecified drugs, medicaments, and biological substances	X64	39	0.9	10.4	2,438	0.8	7.3
Assault (Homicide) by Drugs, Medicaments, and Biological Substances	X85	4	0.1	1.1	57	**	0.2
Undetermined Intent Poisoning by Drugs	Y10-Y14	57	1.3	15.2	3,068	1.0	9.1
Nonopioid analgesics, antipyretics, and antirheumatics	Y10	1	**	0.3	71	**	0.2
Antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified	Y11	4	0.1	1.1	290	0.1	0.9
Narcotics and psychodysleptics (hallucinogens), not elsewhere classified	Y12	13	0.3	3.5	1,411	0.5	4.2
Other drugs acting on the autonomic nervous system	Y13	-	-	-	5	**	**
Other and unspecified drugs, medicaments, and biological substances	Y14	39	0.9	10.4	1,291	0.4	3.8
Other Drug-Related Deaths	Footnote 6	1	0.0	0.3	14	**	**

1. Rates are per 100,000 population. Idaho rates are based on mid-year population.

2. See Technical Notes for a full list of ICD-10 codes for drug-induced deaths.

3. ICD-10 Codes for total psychoactive substance and drug use/abuse deaths: F11.0-F11.5, F11.7-F11.9, F12.0-F12.5, F12.7-F12.9, F13.0-F13.5, F13.7-F13.9, F14.0-F14.5, F14.7-F14.9, F15.0-F15.5, F15.7-F15.9, F16.0-F16.5, F16.7-F16.9, F17.0, F17.3-F17.5, F17.7-F17.9, F18.0-F18.5, F18.7-F18.9, F19.0-F19.5, and F19.7-F19.9.

4. ICD-10 Codes for mental and behavioral disorders due to use of tobacco: F17.0, F17.3-F17.5, and F17.7-F17.9.

5. ICD-10 Codes for mental and behavioral disorders due to other drugs: F11.0-F11.5, F11.7-F11.9, F12.0-F12.5, F12.7-F12.9, F13.0-F13.5, F13.7-F13.9, F14.0-F14.5, F14.7-F14.9, F15.0-F15.5, F15.7-F15.9, F16.0-F16.5, F16.7-F16.9, F18.0-F18.5, F18.7-F18.9, F19.0-F19.5, and F19.7-F19.9.

6. ICD-10 Codes for other drug-related deaths: D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2-J70.4, L10.5, L27.0, L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R78.1-R78.5.

** Represents a percent that rounds to less than 0.1% or a rate that rounds to less than 0.1 per 100,000 population. Dash (-) represents zero.

IDAHO RESIDENT DRUG-INDUCED DEATHS OCCURRING IN IDAHO 2004-2006

Limitations

Idaho Vital Records receives death records for Idaho resident deaths occurring out of state. These records list the ICD-10 code for underlying cause of death. However, literal information on immediate cause, conditions leading to the immediate cause, underlying cause, other significant contributing conditions, and description of how the injury occurred are not provided to Idaho Vital Records. For this reason, the tables containing data broken out by substances listed on the death certificate are limited to Idaho resident deaths occurring in Idaho only.

Summary

There were 342 drug-induced deaths to Idaho residents occurring in Idaho from 2004 to 2006. The number of Idaho resident drug-induced deaths occurring in Idaho increased 38.1 percent from 97 deaths in 2004 to 134 deaths in 2006.

The literal section of the death certificate allows the coroner/physician to list the substance(s) taken by the decedent. Table 4 shows that the most common substance listed on the death certificate among Idaho residents who died in Idaho was Methadone (18.7 percent) followed by antidepressants (10.8 percent), and Benzodiazepine (10.5 percent). A total of 27.8 percent of all drug-induced deaths occurring in Idaho to Idaho residents did not mention a specific drug. Of the 342 drug-induced deaths, 49 (14.3 percent) also listed alcohol.

Table 6 indicates that individuals aged 35-54 accounted for 58.5 percent of the drug-induced deaths to Idaho residents occurring in Idaho. Only 7.3 percent of all deaths were to Idahoans 65 and older. Males accounted for 55.8 percent of all the drug-induced deaths to Idaho residents occurring in Idaho.

The manner of death for drug-induced deaths to Idaho residents occurring in Idaho is shown in Table 7. The majority (55.8 percent) of the drug-induced deaths to Idaho residents occurring in Idaho were the result of unintentional or accidental poisoning. An additional 0.9 percent were homicides, 10.2 percent natural, 16.1 percent suicides, and 17.0 percent were undetermined. Of the natural deaths, Mental and behavioral disorders due to use of tobacco accounted for 77.1 percent, an additional 20.0 percent were caused by Mental and behavioral disorders due to multiple drug use and use of other psychoactive substances.

TABLE 4
Idaho Resident Drug-Induced Deaths Occurring in Idaho
Substances Mentioned on Death Certificate by Year
2004-2006

SUMMARY OF SUBSTANCES MENTIONED ON DEATH CERTIFICATE	TOTAL		YEAR		
	Number	Percent	2004	2005	2006
Total Drug-Induced Deaths to Idaho Residents Occurring in Idaho	342	100.0	97	111	134
Substances Listed on Death Certificates*	543	100.0	159	172	212
<i>Total Nonopioid Analgesics, Antipyretics, and Antirheumatics</i>	6	1.8	1	1	4
Salicylates/Acetylsalicylic (aspirin)	1	0.3	1	-	-
Other (inc. 4-aminophenol, NSAID, pyrazolone)	5	1.5	-	1	4
<i>Total Antiepileptic, Sedative-Hypnotic, Antiparkinsonism, and Psychotropic</i>	138	40.4	43	51	44
Amphetamine	5	1.5	2	3	-
Antidepressants	37	10.8	11	17	9
Antipsychotics	9	2.6	3	3	3
Barbiturates	1	0.3	-	1	-
Benzodiazepine	36	10.5	6	11	19
Gamma-hydroxybutyrate (GHB)	-	-	-	-	-
Methamphetamine	28	8.2	9	13	6
Muscle relaxants	12	3.5	5	3	4
Other (inc. antianxiety, antitussive, sedatives, tranquilizers, etc.)	10	2.9	7	-	3
<i>Total Narcotics and Psychodysleptics (hallucinogens)</i>	192	56.1	62	51	79
Cannabis (Marijuana)	-	-	-	-	-
Cocaine	3	0.9	2	1	-
Codeine	8	2.3	1	2	5
Heroin	12	3.5	5	3	4
Hydrocodone / Hydrocodone and Acetaminophen combinations	35	10.2	11	10	14
Methadone	64	18.7	21	11	32
Morphine	15	4.4	5	2	8
Oxycodone / Oxycontin	25	7.3	8	10	7
Other (inc. LSD, mescaline, opium/alkaloids)	23	6.7	8	8	7
Drug overdose of narcotic drug(s), narcotic drug(s) not listed	7	2.0	1	4	2
<i>Other Known (named), Medicaments, and Biological Substances</i>	35	10.2	7	14	14
Antihistamines	24	7.0	3	10	11
Other (inc. antiemetics, antihypertensive, insulin, anticonvulsant, etc.)	11	3.2	4	4	3
<i>Alcohol in combination with a drug(s)</i>	49	14.3	11	16	22
<i>Tobacco Use</i>	28	8.2	9	8	11
<i>Specific Drug, Medicament, or Biological Substance Not Listed</i>	95	27.8	26	31	38
Drug use/overdose, no mention of type of drug(s)	45	13.2	11	15	19
Drug use/overdose of pain medication(s), pain medication(s) not listed	-	-	-	-	-
Drug use/overdose of prescription drug(s), prescription drug(s) not listed	50	14.6	15	16	19

* Each death certificate may list one or more specific substance(s) or no specific substance.
See Technical Notes for additional information.

TABLE 5
Idaho Resident Drug-Induced Deaths Occurring in Idaho
Substances Mentioned on Death Certificate by District of Residence
2004-2006

SUMMARY OF SUBSTANCES MENTIONED ON DEATH CERTIFICATE	TOTAL	DISTRICT OF RESIDENCE						
		1	2	3	4	5	6	7
Total Drug-Induced Deaths to Idaho Residents Occurring in Idaho	342	52	27	39	110	36	47	31
Substances Listed on Death Certificates*	543	108	36	53	203	51	55	37
Total Nonopioid Analgesics, Antipyretics, and Antirheumatics	6	3	-	1	2	-	-	-
Salicylates/Acetylsalicylic (aspirin)	1	-	-	-	1	-	-	-
Other (inc. 4-aminophenol, NSAID, pyrazolone)	5	3	-	1	1	-	-	-
Total Antiepileptic, Sedative-Hypnotic, Antiparkinsonism, and Psychotropic	138	25	7	13	70	10	7	6
Amphetamine	5	2	1	1	1	-	-	-
Antidepressants	37	3	3	1	22	2	2	4
Antipsychotics	9	-	1	3	4	1	-	-
Barbiturates	1	-	-	-	-	-	-	1
Benzodiazepine	36	14	1	1	16	-	3	1
Gamma-hydroxybutyrate (GHB)	-	-	-	-	-	-	-	-
Methamphetamine	28	3	1	3	16	3	2	-
Muscle relaxants	12	3	-	1	5	3	-	-
Other (inc. antianxiety, antitussive, sedatives, tranquilizers, etc.)	10	-	-	3	6	1	-	-
Total Narcotics and Psychodysleptics (hallucinogens)	192	45	11	10	94	14	12	6
Cannabis (Marijuana)	-	-	-	-	-	-	-	-
Cocaine	3	1	-	-	2	-	-	-
Codeine	8	-	1	1	4	1	1	-
Heroin	12	-	-	3	9	-	-	-
Hydrocodone / Hydrocodone and Acetaminophen combinations	35	7	1	2	22	2	1	-
Methadone	64	18	5	1	27	5	3	5
Morphine	15	3	-	1	8	2	1	-
Oxycodone / Oxycontin	25	9	-	-	10	3	2	1
Other (inc. LSD, mescaline, opium/alkaloids)	23	7	1	2	11	1	1	-
Drug overdose of narcotic drug(s), narcotic drug(s) not listed	7	-	3	-	1	-	3	-
Other Known (named), Medicaments, and Biological Substances	35	13	-	-	11	8	2	1
Antihistamines	24	8	-	-	9	7	-	-
Other (inc. antiemetics, antihypertensive, insulin, anticonvulsant, etc.)	11	5	-	-	2	1	2	1
Alcohol in combination with a drug(s)	49	12	3	7	15	5	3	4
Tobacco Use	28	1	1	8	8	3	3	4
Specific Drug, Medicament, or Biological Substance Not Listed	95	9	14	14	3	11	28	16
Drug use/overdose, no mention of type of drug(s)	45	8	9	4	3	4	14	3
Drug use/overdose of pain medication(s), pain medication(s) not listed	-	-	-	-	-	-	-	-
Drug use/overdose of prescription drug(s), prescription drug(s) not listed	50	1	5	10	-	7	14	13

* Each death certificate may list one or more specific substance(s) or no specific substance.
See Technical Notes for additional information.

TABLE 6
Idaho Resident Drug-Induced Deaths Occurring in Idaho
Substances Mentioned on Death Certificate by Age Group and Gender
2004-2006

SUMMARY OF SUBSTANCES MENTIONED ON DEATH CERTIFICATE	TOTAL	AGE GROUP					GENDER	
		<35	35-44	45-54	55-64	65+	Female	Male
Total Drug-Induced Deaths to Idaho Residents Occurring in Idaho	342	73	102	98	44	25	151	191
Substances Listed on Death Certificates*	543	123	181	143	65	31	247	296
Total Nonopioid Analgesics, Antipyretics, and Antirheumatics	6	1	-	2	2	1	5	1
Salicylates/Acetylsalicylic (aspirin)	1	-	-	1	-	-	1	-
Other (inc. 4-aminophenol, NSAID, pyrazolone)	5	1	-	1	2	1	4	1
Total Antiepileptic, Sedative-Hypnotic, Antiparkinsonism, and Psychotropic	138	29	60	35	11	3	71	67
Amphetamine	5	1	3	-	1	-	2	3
Antidepressants	37	6	18	9	4	-	24	13
Antipsychotics	9	1	3	5	-	-	6	3
Barbiturates	1	1	-	-	-	-	-	1
Benzodiazepine	36	7	13	10	5	1	18	18
Gamma-hydroxybutyrate (GHB)	-	-	-	-	-	-	-	-
Methamphetamine	28	7	13	7	1	-	6	22
Muscle relaxants	12	2	7	2	-	1	7	5
Other (inc. antianxiety, antitussive, sedatives, tranquilizers, etc.)	10	4	3	2	-	1	8	2
Total Narcotics and Psychodysleptics (hallucinogens)	192	53	64	49	20	6	76	116
Cannabis (Marijuana)	-	-	-	-	-	-	-	-
Cocaine	3	1	1	1	-	-	-	3
Codeine	8	2	2	3	1	-	4	4
Heroin	12	3	1	7	1	-	-	12
Hydrocodone / Hydrocodone and Acetaminophen combinations	35	8	14	6	6	1	19	16
Methadone	64	24	16	17	6	1	26	38
Morphine	15	2	8	3	2	-	5	10
Oxycodone / Oxycontin	25	5	11	6	2	1	10	15
Other (inc. LSD, mescaline, opium/alkaloids)	23	5	9	4	2	3	9	14
Drug overdose of narcotic drug(s), narcotic drug(s) not listed	7	3	2	2	-	-	3	4
Other Known (named), Medicaments, and Biological Substances	35	10	14	4	3	4	21	14
Antihistamines	24	10	9	2	2	1	15	9
Other (inc. antiemetics, antihypertensive, insulin, anticonvulsant, etc.)	11	-	5	2	1	3	6	5
Alcohol in combination with a drug(s)	49	12	13	16	6	2	15	34
Tobacco Use	28	-	1	3	11	13	11	17
Specific Drug, Medicament, or Biological Substance Not Listed	95	18	29	34	12	2	48	47
Drug use/overdose, no mention of type of drug(s)	45	10	16	15	4	-	23	22
Drug use/overdose of pain medication(s), pain medication(s) not listed	-	-	-	-	-	-	-	-
Drug use/overdose of prescription drug(s), prescription drug(s) not listed	50	8	13	19	8	2	25	25

* Each death certificate may list one or more specific substance(s) or no specific substance.
See Technical Notes for additional information.

TABLE 7
Idaho Resident Drug-Induced Deaths Occurring in Idaho
Substances Mentioned on Death Certificate by Manner of Death
2004-2006

SUMMARY OF SUBSTANCES MENTIONED ON DEATH CERTIFICATE	TOTAL	MANNER OF DEATH				
		Accident	Homicide	Natural	Suicide	Undetermined
Total Drug-Induced Deaths to Idaho Residents Occurring in Idaho	342	191	3	35	55	58
Substances Listed on Death Certificates*	543	307	3	41	98	94
Total Nonopioid Analgesics, Antipyretics, and Antirheumatics	6	1	-	1	3	1
Salicylates/Acetylsalicylic (aspirin)	1	-	-	-	1	-
Other (inc. 4-aminophenol, NSAID, pyrazolone)	5	1	-	1	2	1
Total Antiepileptic, Sedative-Hypnotic, Antiparkinsonism, and Psychotropic	138	75	-	1	30	32
Amphetamine	5	-	-	1	2	2
Antidepressants	37	17	-	-	6	14
Antipsychotics	9	3	-	-	4	2
Barbiturates	1	1	-	-	-	-
Benzodiazepine	36	22	-	-	9	5
Gamma-hydroxybutyrate (GHB)	-	-	-	-	-	-
Methamphetamine	28	23	-	-	1	4
Muscle relaxants	12	6	-	-	3	3
Other (inc. antianxiety, antitussive, sedatives, tranquilizers, etc.)	10	3	-	-	5	2
Total Narcotics and Psychodysleptics (hallucinogens)	192	138	-	1	20	33
Cannabis (Marijuana)	-	-	-	-	-	-
Cocaine	3	2	-	-	-	1
Codeine	8	6	-	-	1	1
Heroin	12	12	-	-	-	-
Hydrocodone / Hydrocodone and Acetaminophen combinations	35	22	-	-	7	6
Methadone	64	46	-	-	4	14
Morphine	15	11	-	-	1	3
Oxycodone / Oxycontin	25	17	-	1	3	4
Other (inc. LSD, mescaline, opium/alkaloids)	23	17	-	-	4	2
Drug overdose of narcotic drug(s), narcotic drug(s) not listed	7	5	-	-	-	2
Other Known (named), Medicaments, and Biological Substances	35	14	3	1	14	3
Antihistamines	24	11	3	-	8	2
Other (inc. antiemetics, antihypertensive, insulin, anticonvulsant, etc.)	11	3	-	1	6	1
Alcohol in combination with a drug(s)	49	31	-	5	11	2
Tobacco Use	28	-	-	27	-	1
Specific Drug, Medicament, or Biological Substance Not Listed	95	48	-	5	20	22
Drug use/overdose, no mention of type of drug(s)	45	24	-	5	8	8
Drug use/overdose of pain medication(s), pain medication(s) not listed	-	-	-	-	-	-
Drug use/overdose of prescription drug(s), prescription drug(s) not listed	50	24	-	-	12	14

* Each death certificate may list one or more specific substance(s) or no specific substance.
See Technical Notes for additional information.

NATURAL EXAMPLE

According to The National Association of Medical Examiners, a drug overdose is determined natural when it is “due solely or nearly totally to disease/and or the aging process.”

The question 'Did tobacco use contribute to cause of death?' was added to the death certificate in 2003. If the question 'Did tobacco use contribute to cause of death?' was marked yes or probably, deaths that were ill-defined or had an unknown cause of mortality listed on the death certificate were coded to ICD-10 code F17.9, Mental and behavioral disorders due to use of tobacco.

CAUSE OF DEATH		Approximate Interval: Onset to Death
<p>PART I. Enter the chain of events - - diseases, injuries, or complications - - that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE. Enter only one cause on a line:</p> <p>IMMEDIATE CAUSE (Final disease or condition resulting in death) ➔</p> <p>Sequentially list conditions, if any, leading to the cause listed on line a. Enter the UNDERLYING CAUSE LAST (disease or injury that initiated the events)</p>		5 years
<p>a. <u>Respiratory failure</u></p> <p>DUE TO (or as a consequence of): _____</p> <p>b. _____</p> <p>DUE TO (or as a consequence of): _____</p> <p>c. _____</p> <p>DUE TO (or as a consequence of): _____</p> <p>d. _____</p>		
<p>PART II. Enter <u>other significant conditions contributing to death</u> but not resulting in the underlying cause given in Part I</p>		<p>MANNER OF DEATH</p> <p><input checked="" type="checkbox"/> Natural <input type="checkbox"/> Homicide</p> <p><input type="checkbox"/> Accident <input type="checkbox"/> Pending Investigation</p> <p><input type="checkbox"/> Suicide <input type="checkbox"/> Could not be determined</p>
<p>DID TOBACCO USE CONTRIBUTE TO DEATH?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Probably <input type="checkbox"/> Unknown</p>	<p>DESCRIBE HOW INJURY OCCURRED. IF TRANSPORTATION INJURY, STATE THE TYPE(S) OF VEHICLE(S) INVOLVED (Automobile, pickup, motorcycle, ATV, bicycle, etc.)</p> <p>SPECIFY WHICH VEHICLE DECEDENT OCCUPIED, if applicable</p>	

UNDETERMINED EXAMPLE

According to The National Association of Medical Examiners, a drug overdose is undetermined when “the information pointing to one manner of death is no more compelling than one or more other competing manners of death when all information is considered.” In the absence of witnesses, the intent may never be known even after an extensive investigation.

Physicians and coroners can list out each individual substance that contributed to the decedent's cause of death or they can list the drug category. The decedent may have used several types of one category, such as an antidepressant. Therefore, the physician or coroner chooses to write ‘antidepressant’ rather than ‘Prozac’ and ‘Zoloft’. The underlying cause of death for this example is ICD-10 code Y14.

CAUSE OF DEATH		Approximate Interval: Onset to Death
<p>PART I. Enter the chain of events - - diseases, injuries, or complications - - that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE. Enter only one cause on a line:</p> <p>IMMEDIATE CAUSE (Final disease or condition resulting in death) ➔</p> <p>Sequentially list conditions, if any, leading to the cause listed on line a. Enter the UNDERLYING CAUSE LAST (disease or injury that initiated the events)</p>		36 hours
<p>a. <u>Narcotic overdose</u></p> <p>DUE TO (or as a consequence of): _____</p> <p>b. <u>Benzodiazepine overdose</u></p> <p>DUE TO (or as a consequence of): _____</p> <p>c. <u>Tricyclic antidepressant overdose</u></p> <p>DUE TO (or as a consequence of): _____</p> <p>d. _____</p>		36 hours
<p>PART II. Enter <u>other significant conditions contributing to death</u> but not resulting in the underlying cause given in Part I</p>		<p>MANNER OF DEATH</p> <p><input type="checkbox"/> Natural <input type="checkbox"/> Homicide</p> <p><input type="checkbox"/> Accident <input type="checkbox"/> Pending Investigation</p> <p><input type="checkbox"/> Suicide <input checked="" type="checkbox"/> Could not be determined</p>
<p>DID TOBACCO USE CONTRIBUTE TO DEATH?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Probably <input checked="" type="checkbox"/> Unknown</p>	<p>DESCRIBE HOW INJURY OCCURRED. IF TRANSPORTATION INJURY, STATE THE TYPE(S) OF VEHICLE(S) INVOLVED (Automobile, pickup, motorcycle, ATV, bicycle, etc.)</p> <p>SPECIFY WHICH VEHICLE DECEDENT OCCUPIED, if applicable</p> <p>Ingested lethal dosage of prescription drugs</p>	

ACCIDENT EXAMPLE

According to The National Association of Medical Examiners, a drug overdose is determined an accident when “there is little or no evidence that the injury or poisoning occurred with intent to harm or cause death.”

The cause of death is a synthesis of all information derived from both the investigation into the circumstances surrounding the death and the autopsy, if performed. The medical examiner or coroner must use all the information from his or her own investigation, police reports, staff investigations, and discussions with the family and friends of the decedent to determine the manner of death. The underlying cause of death for this example is ICD-10 code X44.

CAUSE OF DEATH		Approximate Interval: Onset to Death
<p>PART I. Enter the chain of events -- diseases, injuries, or complications -- that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE. Enter only one cause on a line:</p> <p>IMMEDIATE CAUSE (Final disease or condition resulting in death) ➔</p> <p>Sequentially list conditions, if any, leading to the cause listed on line a. Enter the UNDERLYING CAUSE LAST (disease or injury that initiated the events)</p> <p>a. <u>Accidental overdose of</u> DUE TO (or as a consequence of): _____</p> <p>b. <u>acute combined poisoning with</u> DUE TO (or as a consequence of): _____</p> <p>c. <u>Methadone, Hydrocodone, Promethazine</u> DUE TO (or as a consequence of): _____</p> <p>d. _____</p>		<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p style="text-align: center;">hours</p> <p>_____</p> <p>_____</p>
<p>PART II. Enter <u>other significant conditions contributing to death</u> but not resulting in the underlying cause given in Part I</p> <p>Depression, schizophrenia, chronic pain</p>		<p>MANNER OF DEATH</p> <p><input type="checkbox"/> Natural <input type="checkbox"/> Homicide</p> <p><input checked="" type="checkbox"/> Accident <input type="checkbox"/> Pending Investigation</p> <p><input type="checkbox"/> Suicide <input type="checkbox"/> Could not be determined</p>
<p>DID TOBACCO USE CONTRIBUTE TO DEATH?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Probably <input checked="" type="checkbox"/> Unknown</p>	<p>DESCRIBE HOW INJURY OCCURRED. IF TRANSPORTATION INJURY, STATE THE TYPE(S) OF VEHICLE(S) INVOLVED (Automobile, pickup, motorcycle, ATV, bicycle, etc.) SPECIFY WHICH VEHICLE DECEDENT OCCUPIED, if applicable</p> <p>Was having pain, kept taking pills not aware of effect</p>	

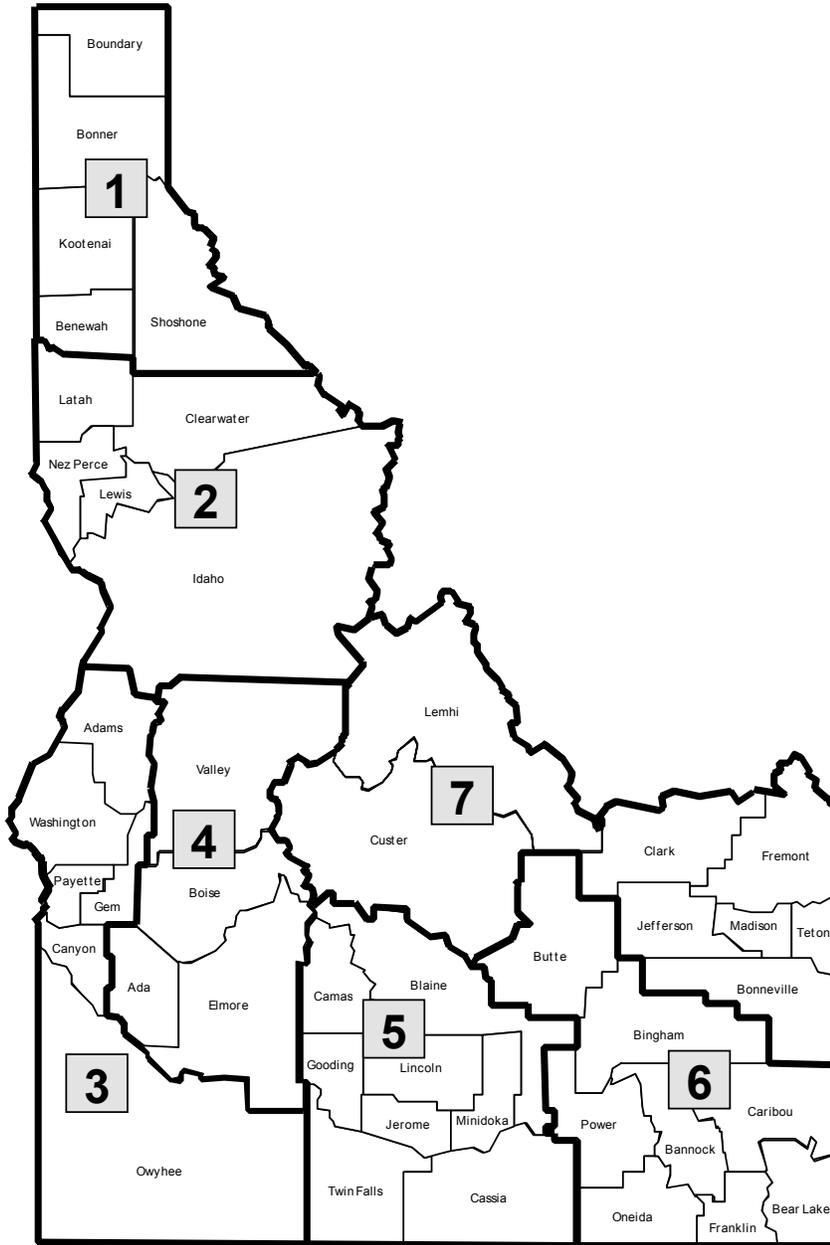
SUICIDE EXAMPLE

According to The National Association of Medical Examiners, a drug overdose is determined a suicide when the “results from an injury or poisoning is a result of an intentional, self-inflicted act committed to do self-harm or cause the death of one’s self.”

The medical examiner or coroner may not indicate on the death certificate how they determined the death was a suicide. For example, if the decedent left a suicide note, the medical examiner or coroner may choose not to mention it on the death certificate and would check the suicide checkbox. The underlying cause of death for this example is ICD-10 code X64.

CAUSE OF DEATH		Approximate Interval: Onset to Death
<p>PART I. Enter the chain of events -- diseases, injuries, or complications -- that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE. Enter only one cause on a line:</p> <p>IMMEDIATE CAUSE (Final disease or condition resulting in death) ➔</p> <p>Sequentially list conditions, if any, leading to the cause listed on line a. Enter the UNDERLYING CAUSE LAST (disease or injury that initiated the events)</p> <p>a. <u>Acute drug overdose</u> DUE TO (or as a consequence of): _____</p> <p>b. _____ DUE TO (or as a consequence of): _____</p> <p>c. _____ DUE TO (or as a consequence of): _____</p> <p>d. _____</p>		<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p style="text-align: center;">hours</p> <p>_____</p> <p>_____</p>
<p>PART II. Enter <u>other significant conditions contributing to death</u> but not resulting in the underlying cause given in Part I</p>		<p>MANNER OF DEATH</p> <p><input type="checkbox"/> Natural <input type="checkbox"/> Homicide</p> <p><input type="checkbox"/> Accident <input type="checkbox"/> Pending Investigation</p> <p><input checked="" type="checkbox"/> Suicide <input type="checkbox"/> Could not be determined</p>
<p>DID TOBACCO USE CONTRIBUTE TO DEATH?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Probably <input type="checkbox"/> Unknown</p>	<p>DESCRIBE HOW INJURY OCCURRED. IF TRANSPORTATION INJURY, STATE THE TYPE(S) OF VEHICLE(S) INVOLVED (Automobile, pickup, motorcycle, ATV, bicycle, etc.) SPECIFY WHICH VEHICLE DECEDENT OCCUPIED, if applicable</p> <p>Took alprazolam, codeine, carisprodol, meprobamate & diphenhydramine</p>	

Appendix Counties Comprising Idaho Public Health Districts



District 1	District 2	District 3	District 4	District 5	District 6	District 7
Benewah Bonner Boundary Kootenai Shoshone	Clearwater Idaho Latah Lewis Nez Perce	Adams Canyon Gem Owyhee Payette Washington	Ada Boise Elmore Valley	Blaine Camas Cassia Gooding Jerome Lincoln Minidoka Twin Falls	Bannock Bear Lake Bingham Butte Caribou Franklin Oneida Power	Bonneville Clark Custer Fremont Jefferson Lemhi Madison Teton

Technical Notes
Idaho Resident Drug-Induced Deaths
2004-2006

Drug-Induced Deaths

Drug-induced deaths as classified by the National Center for Health Statistics (NCHS). The list of codes included in drug-induced causes was expanded in 2003 to be more comprehensive. ICD-10 codes: D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.0-F11.5, F11.7-F11.9, F12.0-F12.5, F12.7-F12.9, F13.0-F13.5, F13.7-F13.9, F14.0-F14.5, F14.7-F14.9, F15.0-F15.5, F15.7-F15.9, F16.0- F16.5, F16.7-F16.9, F17.0, F17.3-F17.5, F17.7-F17.9, F18.0-F18.5, F18.7-F18.9, F19.0-F19.5, F19.7-F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2-J70.4, L10.5, L27.0, L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R78.1- R78.5, X40-X44, X60-X64, X85, and Y10-Y14. Drug-induced deaths include deaths due to drug psychosis; drug dependence; nondependent use of drugs not including alcohol and tobacco; accidental poisoning by drugs, medicaments, and biologicals; intentional self-poisoning (suicide) by drugs, medicaments, and biologicals; assault (homicide) by poisoning by drugs and medicaments; and poisoning by drugs, medicaments, and biologicals, undetermined whether accidental or purposely inflicted. Drug-induced deaths do not include newborn deaths associated with mother's drug use or accidents such as falls and motor vehicle crashes, homicides, and other causes indirectly related to drug use.

ICD-10 Code F17.9: unspecified mental and behavioural disorder due to use of tobacco (chain, former, life long, or packs per day). The question 'Did tobacco use contribute to cause of death?' was added to the death certificate in 2003. Prior to 2003, deaths that were ill-defined or had an unknown cause of mortality listed on the death certificate were coded to ICD-10 codes R96-R99.9. Beginning in 2003, deaths that were ill-defined or had an unknown cause of mortality listed on the death certificate were coded to ICD-10 codes R96-R99.9, if the question 'Did tobacco use contribute to cause of death?' was marked no or unknown. If the question 'Did tobacco use contribute to cause of death?' was marked yes or probably, deaths that were ill-defined or had an unknown cause of mortality listed on the death certificate were coded to ICD-10 code F17.9.

Idaho Vital Records receives death records for Idaho resident deaths occurring out of state. These records list the ICD-10 code for underlying cause of death. However, literal information on immediate cause, conditions leading to the immediate cause, underlying cause, other significant contributing conditions, and description of how the injury occurred are not provided to Idaho Vital Records. Therefore, only substances listed on death certificates to Idaho residents occurring in Idaho are shown in tables 4-7.

Substances Listed on Death Certificate

Includes all substances listed on the Idaho death certificate on one or more of the following lines: immediate cause, conditions leading to the immediate cause, underlying cause, other significant contributing conditions, and description of how the injury occurred. Each death certificate may list one or more specific substance(s) or no specific substance.

Other Antiepileptic Sedative-Hypnotic, Antiparkinsonism, and Psychotropic*

Other, includes antianxiety, antitussive, sedatives, tranquilizers, etc.

Ambien	Meprobamate
Buspirone	Sleeping pills
Dextromethomorphan	Valproic Acid

Other Known (named) Medicaments, and Biological Substances*

Includes the following substances named on the death certificate that are not elsewhere classified:

Helium	Oxcarbazepine
Insulin	Potassium
Lisinopril	Tobramycin
Metaclopramide	Verapamil

*Only includes those substances listed on an Idaho death certificate in 2004, 2005, or 2006.

Data may differ from previously published data due to updates in the data base or coding practices.

Source: Idaho Department of Health and Welfare, Bureau of Vital Records and Health Statistics (04/2008).